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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified

prophetic substances identified in new Japanese-
language patents
NEWS 26 OCT 07 EPFULL enhanced with full implementation of EPC2000
NEWS 27 OCT 07 Multiple databases enhanced for more flexible patent
number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 19:38:09 ON 09 OCT 2008

=> file caplus

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FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 19:38:52 ON 09 OCT 2008

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FILE COVERS 1907 - 9 Oct 2008 VOL 149 ISS 15

FILE LAST UPDATED: 8 Oct 2008 (20081008/ED)

Caplus now includes complete International Patent Classification (IPC)
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=> s (annular (2w) chormatography) (L) (reaction (2w) zone)

34999 ANNULAR

4 ANNULARS

35000 ANNULAR

(ANNULAR OR ANNULARS)

1 CHORMATOGRAPHY

4 CHORMATOG

5 CHORMATOGRAPHY

(CHORMATOGRAPHY OR CHORMATOG)

3229965 REACTION

2322853 REACTIONS

4338137 REACTION

(REACTION OR REACTIONS)

318931 ZONE

115472 ZONES

392681 ZONE

(ZONE OR ZONES)

L1 0 (ANNULAR (2W) CHORMATOGRAPHY) (L) (REACTION (2W) ZONE)

=> s annular (2w) chromatography) (L) reaction

UNMATCHED RIGHT PARENTHESIS 'MATOGRAPHY) '

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s (annular (2w) chromatography) (L) reaction

34999 ANNULAR

4 ANNULARS

35000 ANNULAR

(ANNULAR OR ANNULARS)

344306 CHROMATOGRAPHY

161 CHROMATOGRAPHIES

344420 CHROMATOGRAPHY

(CHROMATOGRAPHY OR CHROMATOGRAPHIES)

676332 CHROMATOG

3661 CHROMATOGS

678994 CHROMATOG

(CHROMATOG OR CHROMATOGS)

778387 CHROMATOGRAPHY

(CHROMATOGRAPHY OR CHROMATOG)

3229965 REACTION

2322853 REACTIONS

4338137 REACTION

(REACTION OR REACTIONS)

L2 14 (ANNULAR (2W) CHROMATOGRAPHY) (L) REACTION

=> s l2 and zeolite

108966 ZEOLITE

105147 ZEOLITES

132248 ZEOLITE

(ZEOLITE OR ZEOLITES)

L3 1 L2 AND ZEOLITE

=> d l3 ibib abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:673161 CAPLUS

DOCUMENT NUMBER: 143:155680
 TITLE: Method for the production of a chemical reaction product with the aid of a fixed-bed reactor
 INVENTOR(S): Morbidelli, Massimo; Mazzotti, Marco; Prior, Adalbert; Prior, Joachim; Lang, Frank
 PATENT ASSIGNEE(S): Prior Engineering A.-G., Switz.
 SOURCE: PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005068042	A1	20050728	WO 2005-AT2	20050113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AT 2004000042	A	20050715	AT 2004-42	20040115
AT 413338	B	20060215		
EP 1703957	A1	20060927	EP 2005-700003	20050113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
US 20080132722	A1	20080605	US 2007-586065	20070824
PRIORITY APPLN. INFO.:			AT 2004-42	A 20040115
			WO 2005-AT2	W 20050113
AB	Disclosed is a method for producing at least one chemical reaction product by chemical reacting one or several reactants that is/are optionally dissolved in one or several solvents and is/are supplied as a feed stream by bringing the same in contact with a heterogeneous catalyst in a continuously operated fixed-bed reactor which is filled with a particle bed, a continuous annular chromatograph (CAC) that is filled with the particle bed being used as a fixed-bed reactor in which the at least one reaction product is formed and purified while the at least one purified reaction product as well as optionally provided secondary products and/or non-reacted reactants are withdrawn at a different, predetd. azimuthal position of the annular chromatograph, resp. The inventive method is characterized in that only one type of particle material is used in a single particle bed as both a formation catalyst and a chromatog. medium for purifying the at least one reaction product in the particle bed.			
REFERENCE COUNT:	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> s 12 and (ion (2w) exchange (2w) resin)
 1281018 ION
 785095 IONS
 1691844 ION

(ION OR IONS)
615033 EXCHANGE
18612 EXCHANGES
624164 EXCHANGE
(EXCHANGE OR EXCHANGES)
680266 RESIN
441283 RESINS
832674 RESIN

(RESIN OR RESINS)
29493 ION (2W) EXCHANGE (2W) RESIN

L4 2 L2 AND (ION (2W) EXCHANGE (2W) RESIN)

=> d 14 1-2 ibib abs

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:513144 CAPLUS

DOCUMENT NUMBER: 143:192343

TITLE: Continuous matrix assisted refolding of
 α -lactalbumin by ion exchange chromatography
with recycling of aggregates combined with
ultradiafiltration

AUTHOR(S): Machold, Christine; Schlegl, Robert; Buchinger,
Wolfgang; Jungbauer, Alois

CORPORATE SOURCE: Department of Biotechnology, University of Natural
Resources and Applied Life Sciences, Vienna, A-1190,
Austria

SOURCE: Journal of Chromatography, A (2005), 1080(1), 29-42
CODEN: JCRAEY; ISSN: 0021-9673

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Continuous matrix assisted refolding (MAR) can be achieved on a solid support by using a continuous chromatog. system. Recycling the aggregate fraction, simultaneously formed during a refolding reaction, can further increase the refolding yield. Due to the nature of this reaction, aggregates are the main reason for a refolding yield below stoichiometric conversion. A preparative continuous annular chromatog. system (P-CAC) equipped with an ion exchange resin was used to continuously refold the model protein α -lactalbumin. For this purpose, this protein was denatured, reduced and adsorbed on the ion exchange resin. Elution was performed with or without redox reagents in the buffer system permitting fast formation of the native disulfide bonds. In the case redox reagents were present, the protein refolds then during its residence time on the matrix. However, aggregate formation is also increased and refolding yields are lower. Tightly bound aggregates were removed from the column by 2 M guanidinium hydrochloride. In order to increase the system yield, this aggregate fraction was recycled after lowering the conductivity by ultradiafiltration and adjustment of the protein concentration by dilution. For on-column refolding, recycling of aggregates at

a recycling rate of 0.17 increased the system yield from 25% to 30%. An algorithm was developed to show interdependencies of the single influencing parameters. The operability of the system was demonstrated but limitations due to instability of the P-CAC, especially inhomogeneous flow and peak wobbling, have to be considered.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

Serial No. 10/586065

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:512605 CAPLUS

DOCUMENT NUMBER: 119:112605

ORIGINAL REFERENCE NO.: 119:20153a,20156a

TITLE: Simultaneous biochemical reaction and separation in a rotating annular chromatograph

AUTHOR(S): Sarmidi, M. R.; Barker, P. E.

CORPORATE SOURCE: Dep. Chem. Eng., Univ. Aston, Aston Triangle/Birmingham, B4 7ET, UK

SOURCE: Chemical Engineering Science (1993), 48(14), 2615-23
CODEN: CESCAC; ISSN: 0009-2509

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Simultaneous biochem. reaction and separation has been carried out successfully for the first time in a continuous rotating annular chromatograph (CRAC) by inverting sucrose to glucose and fructose using the enzyme invertase. The chromatograph was packed with 14.5 dm³ Dowex 50W-X4 calcium form ion exchange resin. Results from the initial expts. indicated that complete conversion could be achieved for feed concns. of up to 50% w/v sucrose and at feed throughputs of up to 15 kg sucrose per m³ resin/h. Numerical simulation for the combined biochem. and separation on a CRAC has also been carried out. The model was solved using a finite difference method and the results indicate a good agreement between the exptl. and the predicted elution concentration profile.

=> FIL STNGUIDE

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SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

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SINCE FILE	TOTAL
ENTRY	SESSION

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L1	0 S (ANNULAR (2W) CHORMATOGRAPHY) (L) (REACTION (2W) ZONE)
L2	14 S (ANNULAR (2W) CHROMATOGRAPHY) (L) REACTION
L3	1 S L2 AND ZEOLITE
L4	2 S L2 AND (ION (2W) EXCHANGE (2W) RESIN)

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
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